

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO. : 7,897,597 B2  
APPLICATION NO. : 10/595103  
DATED : March 1, 2011  
INVENTOR(S) : Kyle J Lindstrom

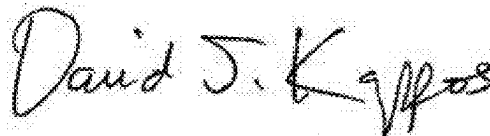
Page 1 of 10

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

**List of References**

- **Title Page 5, Col. 2 (Other Publications), Line 2** - Delete “Ammonial/Potassium” and insert -- Ammonia/Potassium --, therefor.
- **Title Page 6, Col. 1 (Other Publications), Line 21** - Delete “a ,” and insert -- al., --, therefor.
- **Title Page 6, Col. 1 (Other Publications), Line 62** - Delete “at,” and insert -- al., --, therefor.
- **Title Page 6, Col. 2 (Other Publications), Line 43** - Delete “of” and insert -- et --, therefor.
- **Title Page 6, Col. 2 (Other Publications), Line 53** - Delete “al,” and insert -- al., --, therefor.
- **Title Page 6, Col. 2 (Other Publications), Line 55** - Delete “Chmica” and insert -- Chimica --, therefor.
- **Title Page 7, Col. 1 (Other Publications), Line 12** - Delete “a,” and insert -- al., --, therefor.
- **Title Page 7, Col. 2 (Other Publications), Line 28** - Delete “Hydrocarbons” and insert -- Hydrocarbons --, therefor.
- **Title Page 7, Col. 2 (Other Publications), Line 62** - Delete “Naphthyridines Hydroxynaphthyridies,” and insert -- Naphthyridines Hydroxynaphthyridines, --, therefor.
- **Title Page 8, Col. 1 (Other Publications), Line 6** - Delete “Gessellschaft” and insert -- Gesellschaft --, therefor.
- **Title Page 8, Col. 1 (Other Publications), Line 40** - Delete “al,” and insert -- al., --, therefor.

Signed and Sealed this  
Twenty-first Day of June, 2011



David J. Kappos  
*Director of the United States Patent and Trademark Office*

**U.S. Pat. No. 7,897,597 B2**

- **Title Page 8, Col. 1 (Other Publications), Line 68** - Delete “Stablized” and insert -- Stabilized --, therefor.
- **Title Page 8, Col. 2 (Other Publications), Line 7** - Delete “nti-inflammatory” and insert -- anti-inflammatory --, therefor.
- **Title Page 9, Col. 1 (Other Publications), Line 47** - Delete “Dermatologi;” and insert -- Dermatology; --, therefor.
- **Title Page 9, Col. 2 (Other Publications), Line 1** - Delete “Structure-Activitiy” and insert -- Structure-Activity --, therefor.
- **Title Page 9, Col. 2 (Other Publications), Line 37** - Delete “Immnunol.” and insert -- Immunol. --, therefor.
- **Title Page 9, Col. 2 (Other Publications), Line 56** - Delete “Hely” and insert -- Helv --, therefor.
- **Title Page 10, Col. 1 (Other Publications), Line 17** - Delete “2-arlypyrazolo” and insert -- 2-arylpyrazolo --, therefor.
- **Title Page 10, Col. 1 (Other Publications), Line 24** - Delete “imizazo” and insert -- imidazo --, therefor.
- **Title Page 10, Col. 1 (Other Publications), Line 25** - Delete “nucleosides:fficient” and insert -- nucleosides: efficient --, therefor.
- **Title Page 10, Col. 1 (Other Publications), Lines 53-54** - Delete “Assymmetry.” and insert -- Asymmetry. --, therefor.
- **Title Page 10, Col. 1 (Other Publications), Line 60** - Delete “Bacteroids” and insert -- Bacteroides --, therefor.
- **Title Page 10, Col. 2 (Other Publications), Line 35** - Delete “lipoiygenase” and insert -- lipoxxygenase --, therefor.
- **Title Page 11, Col. 2 (Other Publications), Line 1** - Delete “IsosteriC” and insert -- Isosteric --, therefor.
- **Title Page 11, Col. 2 (Other Publications), Line 5** - Delete “at.,” and insert -- al., --, therefor.
- **Title Page 11, Col. 2 (Other Publications), Line 6** - Delete “Tray” and insert -- Trav --, therefor.

**U.S. Pat. No. 7,897,597 B2**

- **Title Page 11, Col. 2 (Other Publications), Line 58** - Delete “ofHeterocylic” and insert -- of Heterocyclic --, therefor.

**Specification**

- **Column 4, Line 24,** - Delete “-N(R<sub>8</sub>)C(R<sub>6</sub>)-” and insert -- -N(R<sub>8</sub>)-C(R<sub>6</sub>)- --, therefor.
- **Column 4, Line 32,** - Delete “substitutents;” and insert -- substituents; --, therefor.
- **Column 6, Line 5,** - After “of” insert -- : --.
- **Column 11, Line 41,** - Below “- X'-R<sub>4-1</sub>,” insert -- -X'-Y'-R<sub>4</sub>, --.
- **Column 15, Line 33,** - Delete “C-,” and insert -- O-, --, therefor.
- **Column 17, Line 46,** - Delete “substitutent.” and insert -- substituent. --, therefor.
- **Column 19, Line 1,** - Delete “-2#-” and insert -- -2H- --, therefor.
- **Column 19, Line 11,** - Delete “-C(R<sub>61</sub>)-,” and insert -- -C(R<sub>6</sub>)-, --, therefor.
- **Column 19, Lines 34-35,** - Delete “4-(1,1-dioxidoisothiazohdin-2-yl)butyl,” and insert -- 4-(1,1-dioxidoisothiazolidin-2-yl)butyl, --, therefor.
- **Column 19, Line 45,** - Delete “Cl<sub>1-2</sub>” and insert -- C<sub>1-2</sub> --, therefor.
- **Column 19, Lines 49-50,** - Delete “methyammocarbonylaminomethyl.” and insert -- methylaminocarbonylaminomethyl. --, therefor.
- **Column 20, Line 62,** - Before “some” insert -- In --.
- **Column 24, Line 43,** - Delete “-3-nitroquinolin” and insert -- -3-nitroquinoline --, therefor.
- **Column 25, Line 67,** - Delete “3-amino” and insert -- 3-amido --, therefor.
- **Column 26, Line 17,** - Delete “L” and insert -- I, --, therefor
- **Column 26, Line 19,** - Delete “-5H-” and insert -- -5N- --, therefor
- **Column 26, Line 30,** - Delete “animated” and insert -- aminated --, therefor.
- **Column 29, Line 18,** - Delete “n,” and insert -- II, --, therefor.
- **Column 29, Line 42,** - Delete “animated” and insert -- aminated --, therefor.

**U.S. Pat. No. 7,897,597 B2**

- Column 29, Line 49, - Delete “TV-oxide” and insert -- N-oxide --, therefor.
- Column 29, Line 54, - Delete “men” and insert -- then --, therefor.
- Column 30, Line 28, - Delete “XXXI” and insert -- XXXI, --, therefor.
- Column 30, Line 46, - Delete “N=O” and insert -- N=C=O --, therefor.
- Column 30, Line 64, - Delete “R<sub>9</sub>,” and insert -- R<sub>8</sub>, --, therefor.
- Column 33, Line 50, - Delete “animated” and insert -- aminated --, therefor.
- Column 34, Line 60, - Delete “Ar,” and insert -- Ar' --, therefor.
- Column 36, Line 41, - Delete “animated” and insert -- aminated --, therefor.
- Column 37, Line 2, - Delete “inline” and insert -- imine --, therefor.
- Column 38, Line 64, - Delete “animated” and insert -- aminated --, therefor.
- Column 39, Line 62, - Delete “Methylamine” and insert -- triethylamine --, therefor.
- Column 41, Line 41, - Delete “(TL).” and insert -- (IL). --, therefor.
- Column 41, Line 43, - Delete “DL-1,” and insert -- IL-1, --, therefor.
- Column 42, Line 39, - Delete “HSV-H,” and insert -- HSV-II, --, therefor.
- Column 42, Line 47, - Delete “flavdvirus” and insert -- flavivirus --, therefor.
- Column 42, Lines 60-61, - Delete “histoplasmons,” and insert -- histoplasmosis, --, therefor.
- Column 42, Lines 62-63, - Delete “carnii pneomonia,” and insert -- carinii pneumonia, --, therefor.
- Column 42, Line 67, - Delete “Karposi’s” and insert -- Kaposi’s --, therefor.
- Column 43, Line 9, - Delete “Ommen’s syndrome,” and insert -- Omenn’s syndrome, --, therefor.
- Column 43, Line 25, - Delete “hemophilus” and insert -- haemophilus --, therefor.
- Column 44, Line 52, - Delete “phenylamino” and insert -- phenylimino --, therefor.

**U.S. Pat. No. 7,897,597 B2**

- Column 44, Line 60, - Delete “phenylamino” and insert -- phenylimino --, therefor.
- Column 46, Line 40, - Delete “1.5” and insert -- 7.5 --, therefor.
- Column 47, Line 59, - Delete “an” and insert -- as an --, therefor.
- Column 48, Line 44, - Delete “quinolin” and insert -- quinoline --, therefor.
- Column 49, Line 63, - Delete “(d” and insert -- (d, J= --, therefor.
- Column 53, Line 16, - Delete “w/z” and insert -- m/z --, therefor.
- Column 53, Line 57, - Delete “-1/Z-” and insert -- -1H- --, therefor.
- Column 55, Line 45, - Delete “-2-pro” and insert  
--2-propyl-1H-imidazo[4,5-c]quinolin-4-amine --, therefor.
- Column 55, Line 58, - Delete “(trifluoromethyl)” and insert -- (trifluoromethyl) --, therefor.
- Column 55, Lines 62-63, - Delete “(trifluoromethyl)” and insert -- (trifluoromethyl) --,  
therefor.
- Column 56, Line 21, - Delete “(t, 7=” and insert -- (t, J= --, therefor.
- Column 62, Line 49, - Delete “(septet 7=” and insert -- (septet J= --, therefor.
- Column 62, Line 49, - Delete “(t, 7=” and insert -- (t, J= --, therefor.
- Column 64, Line 17, - Delete “(d, 7=” and insert -- (d, J= --, therefor.
- Column 64, Line 20, - Delete “(d, 7=” and insert -- (d, J= --, therefor.
- Column 64, Line 21, - Delete “(q, 7=” and insert -- (q, J= --, therefor.
- Column 64, Line 21, - Delete “(septet, 7=” and insert -- (septet, J= --, therefor.
- Column 64, Line 22, - Delete “(t, 7=” and insert -- (t, J= --, therefor.
- Column 64, Line 22, - Delete “(d, 7=” and insert -- (d, J= --, therefor.
- Column 65, Line 11, - Delete “(d, 7=” and insert -- (d, J= --, therefor.
- Column 65, Line 12, - Delete “(d, 7=” and insert -- (d, J= --, therefor.
- Column 65, Line 13, - Delete “(d, 7=” and insert -- (d, J= --, therefor.

- Column 65, Line 14, - Delete “(q, 7=” and insert -- (q, J= --, therefor.
- Column 65, Line 14, - Delete “(septet, 7=” and insert -- (septet, J= --, therefor.
- Column 65, Line 15, - Delete “(t, 7=” and insert -- (t, J= --, therefor.
- Column 66, Line 27, - Delete “(d, 0.7=” and insert -- (d, J= --, therefor.
- Column 68, Line 2, - Delete “by/7-” and insert -- by p- --, therefor.
- Column 70, Line 45, - Delete “g” and insert -- g, --, therefor.
- Column 70, Line 47, - Delete “dichloromethane methanol” and insert -- dichloromethane:methanol --, therefor.
- Column 72, Line 19, - Delete “(3-nitrophenoxy-2-” and insert -- (3-nitrophenoxy)-2- --, therefor.
- Column 76, Line 8, - Delete “-imidazo” and insert -- imidazo[4,5-c]quinoline --, therefor.
- Column 78, Line 63, - Delete “TV-” and insert -- N- --, therefor.
- Column 79, Line 33, - Delete “7V” and insert -- N- --, therefor.
- Column 81, Line 59, - Delete “(pentet,” and insert -- (pentet, J= --, therefor.
- Column 81, Line 62, - Delete “8159.0,” and insert --  $\delta$ 159.0, --, therefor.
- Column 84, Line 30, - After “(2-methoxyethyl)” delete “-1H”.
- Column 86, Line 48, - Delete “added,” and insert -- added --, therefor.
- Column 89, Line 17, - Delete “7V’-” and insert -- N- --, therefor.
- Column 89, Line 18, - Delete “-N<sup>4</sup>-” and insert -- -N- --, therefor.
- Column 89, Line 21, - Delete “-5-” and insert -- -3- --, therefor.
- Column 89, Line 59, - Delete “H” and insert -- I --, therefor.
- Column 90, Line 44, - Delete “0° C.,” and insert-- ~0° C.; --, therefor.
- Column 90, Line 64, - Delete “quinolin” and insert -- quinoline --, therefor.
- Column 91, Line 23, - Delete “362.1134” and insert -- 362.1734 --, therefor.

**U.S. Pat. No. 7,897,597 B2**

- Column 92, Line 2, - Delete “animate” and insert -- aminate --, therefor.
- Column 92, Line 8, - Delete “(d,7=” and insert -- (d,J= --, therefor.
- Column 92, Line 13, - Delete “5153.6,” and insert --  $\delta$ 153.6, --, therefor.
- Column 92, Line 43, - Delete “-methylquinoline-” and insert -- -methylquinoline-3,4- --, therefor.
- Column 92, Line 49, - Delete “0° C.,” and insert --  $\sim$ 0° C., --, therefor.
- Column 93, Line 14, - Delete “quinolin” and insert -- quinoline --, therefor.
- Column 94, Lines 42-43, - Delete “dichloromemane:methanol).” and insert -- dichloromethane:methanol). --, therefor.
- Column 97, Line 41, - Delete “quinolin e” and insert -- quinoline --, therefor.
- Column 97, Line 53, - Delete “(pentet,” and insert -- (pentet, J= --, therefor.
- Column 98, Line 30, - Delete “quinolin” and insert -- quinoline --, therefor.
- Column 101, Line 7, - Delete “-1/J-” and insert -- -1H- --, therefor.
- Column 101, Line 10, - Delete “horn;” and insert -- hour --, therefor.
- Column 102, Line 42, - Delete “nitroquinoline” and insert -- Nitroquinoline-4-amine --, therefor.
- Column 103, Line 4, - After “but the” delete “ 1”.
- Column 106, Line 15, - Delete “(APCI)/w/z” and insert -- “(APCI) m/z --, therefor.
- Column 108, Line 50, - Delete “.0.20H<sub>2</sub>O:” and insert -- .0.20 H<sub>2</sub>O: --, therefor.
- Column 111, Line 52, - Delete “N{4” and insert -- N-{4 --, therefor.
- Column 113, Line 35, - Delete “butyl}” and insert -- butyl} --, therefor.
- Column 114, Line 43, - Delete “.0.15H<sub>2</sub>O:” and insert -- .0.15 H<sub>2</sub>O: --, therefor.
- Column 115, Line 46, - Delete “<sup>13</sup>H” and insert -- <sup>1</sup>H --, therefor.
- Column 116, Line 67, - Delete “(t,7=” and insert -- (t,J= --, therefor.

**U.S. Pat. No. 7,897,597 B2**

- Column 120, Line 52, - Delete “.0.25H<sub>2</sub>O:” and insert -- .0.25 H<sub>2</sub>O: --, therefor.
- Column 122, Line 40, - Delete “.0.50H<sub>2</sub>O:” and insert -- .0.50 H<sub>2</sub>O: --, therefor.
- Column 122, Line 66, - Delete “.0.25H<sub>2</sub>O:” and insert -- .0.25 H<sub>2</sub>O: --, therefor.
- Column 123, Line 24, - Delete “.0.77H<sub>2</sub>O:” and insert -- .0.77 H<sub>2</sub>O: --, therefor.
- Column 123, Line 46, - Delete “.0.50H<sub>2</sub>O:” and insert -- .0.50 H<sub>2</sub>O: --, therefor.
- Column 124, Line 2, - Delete “.0.75H<sub>2</sub>O:” and insert -- .0.75 H<sub>2</sub>O: --, therefor.
- Column 125, Line 3, - Delete “Anal,” and insert -- Anal. --, therefor.
- Column 126, Line 8, - Delete “animate” and insert -- aminate --, therefor.
- Column 128, Line 44, - Delete “H-” and insert -- N- --, therefor.
- Column 130, Line 39, - Delete “5-c]” and insert -- 5-α] --, therefor.
- Column 131, Line 37, - Delete “8-(Benzoyloxy)” and insert -- 8-(Benzyloxy) --, therefor.
- Column 138, After Line 67, - Insert  
 -- from acetonitrile to give 102 mg of 7-(furan-3-ylmethoxy)-2-methyl-1-(2-methylpropyl)-  
 1H-imidazo[4,5-c]quinolin-4-amine as a white powder, mp 181.0-183.0.  
 MS (APCI) m/z 351 (M+H)<sup>+</sup>;  
 Anal. Calcd. for C<sub>20</sub>H<sub>22</sub>N<sub>4</sub>O<sub>2</sub>.0.6 CH<sub>3</sub>CN: % C, 67.89; % H, 6.40; % N, 17.18.  
 Found: % C, 67.72; % H, 6.67; %N, 16.95. --.
- Column 140, Line 20, - Delete “.0.55H<sub>2</sub>O:” and insert -- .0.55 H<sub>2</sub>O: --, therefor.
- Column 142, Line 17, - Delete “.0.33H<sub>2</sub>O:” and insert -- .0.33 H<sub>2</sub>O: --, therefor.
- Column 142, Line 57, - Delete “triethylamine,” and insert -- triethylamine, --, therefor.
- Column 148, Line 66, - Delete “amine,” and insert -- amine. --, therefor.
- Column 153, Line 44, - Delete “.0.5H<sub>2</sub>O:” and insert -- .0.5 H<sub>2</sub>O: --, therefor.
- Column 154, Lines 3-4, - Delete “thiazoleHCl” and insert -- thiazole.HCl --, therefor.
- Column 157, Line 41, - Delete “-benzoyloxy-” and insert -- -benzyloxy- --, therefor.
- Column 157, Line 61, - Delete “triethylamine.” and insert -- triethylamine. --, therefor.

**U.S. Pat. No. 7,897,597 B2**

- **Column 158, Line 59,** - Delete “-1,1-” and insert -- -1-yl)-1,1- --, therefor.
- **Column 160, Line 52,** - Delete “-methylethyl]-” and insert-- -dimethylethyl]- --, therefor.
- **Column 165, Line 6,** - Delete “(q, 7=” and insert -- (q, J= --, therefor.
- **Column 165, Line 12,** - Delete “.0.12H<sub>2</sub>O:” and insert -- .0.12 H<sub>2</sub>O: --, therefor.
- **Column 167, Line 53,** - Delete “phenylamino]” and insert -- phenylimino] --, therefor.
- **Column 169, Line 35,** - Delete “7=” and insert -- J= --, therefor.
- **Column 172, Line 47,** - Delete “Anal,” and insert -- Anal. --, therefor.
- **Column 172, Line 55,** - Delete “mmol.” and insert -- mmol, --, therefor.
- **Column 174, Line 4,** - Delete “Anal,” and insert -- Anal. --, therefor.
- **Column 178, Line 14,** - Delete “acid/acetonitrile:” and insert -- acid/acetonitrile; --, therefor.
- **Column 188, Line 61,** - Delete “phenylthiocarbamoyl” and insert -- phenylthiocarbamyl --, therefor.
- **Column 191, Line 18,** - Delete “-2#-” and insert -- -2H- --, therefor.
- **Column 192, Line 6,** - Delete “animate” and insert -- aminate --, therefor.
- **Column 203, Line 11,** - Delete “microliter” and insert -- microtiter --, therefor.

### **Claims**

- **Column 205, Line 62,** - In Claim 1, delete “independently-selected” and insert -- independently selected --, therefor.
- **Column 208, Line 20,** - In Claim 13, after “alkenyl” insert -- , --.
- **Column 208, Line 36,** - In Claim 13, delete “front” insert -- from --, therefor.
- **Column 208, Line 51,** - In Claim 13, delete “independently-selected” and insert -- independently selected --, therefor.
- **Column 209, Line 55,** - In Claim 21, delete “2-hydroxyl” and insert -- 2-hydroxy --, therefor.
- **Column 210, Line 27,** - In Claim 25, delete “-X-” and insert -- -X'- --, therefor.

**U.S. Pat. No. 7,897,597 B2**

- **Column 212, Line 15,** - In Claim 25, delete “front” insert -- from --, therefor.
- **Column 212, Line 40,** - In Claim 25, delete “that,” and insert -- that --, therefor.
- **Column 212, Line 67,** - In Claim 27, delete “4-[(methasulfonyl)ammo]butyl,” and insert -- 4-[(methylsulfonyl) amino]butyl, --, therefor.
- **Column 213, Line 20,** - In Claim 33, after “biosynthesis” delete “in an animal”.
- **Column 213, Line 38,** - In Claim 34, delete “-R<sub>4-1</sub>,” and insert -- -R<sub>4-1</sub>, --, therefor.
- **Column 213, Line 39,** - In Claim 34, delete “-R<sub>4-1</sub>,” and insert -- -X'-R<sub>4-1</sub>, --, therefor.
- **Column 213, Line 47,** - In Claim 34, delete “group,” and insert -- group --, therefor.
- **Column 214, Line 45,** - In Claim 34, delete “alkylheteroarylenyl” and insert -- alkylheteroarylenyl, --, therefor.
- **Column 214, Line 46,** - In Claim 34, delete “can the” and insert -- can be --, therefor.
- **Column 214, Line 57,** - In Claim 34, after “alkynyl” insert -- , --.
- **Column 215, Line 20,** - In Claim 34, delete “-O and -S-;” and insert -- =O and =S; --, therefor.
- **Column 215, Line 55,** - In Claim 35, delete “R<sub>4</sub>” and insert -- R<sub>4</sub> is --, therefor.
- **Column 216, Line 43,** - In Claim 36, delete “alkylamino,and” and insert -- alkylamino, and --, therefor.
- **Column 216, Line 48,** - In Claim 36, delete “of;” and insert -- of: --, therefor.
- **Column 218, Line 54,** - In Claim 38, delete “R<sub>5</sub>” and insert -- R<sub>5</sub>, --, therefor.
- **Column 220, Line 1,** - In Claim 43, delete “salf” and insert -- salt --, therefor.